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EPO FORM 1503 03.82 (P04C01)

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X ✓	MICROSOFT CORPORATION: "DirectX Media: Multimedia Services for Microsoft Internet Explorer and Microsoft Windows" INTERNET CITATION, October 1998 (1998-10), XP002331570 * paragraph titled "DirectShow", figure 3 * paragraph titled "Multimedia Streaming with DirectShow", figure 4 *	1-13, 28-34	G06F17/30
X ✓	CHATTERJEE A ET AL: "Microsoft DirectShow: A New Media Architecture" SMPTE JOURNAL, SMPTE INC. SCARSDALE, N.Y, US, vol. 106, no. 12, 1 December 1997 (1997-12-01), pages 865-871, XP000733435 ISSN: 0036-1682 * page 867, middle column, line 1 - page 868, left-hand column, line 9; figure 4 * * page 869, left-hand column, line 29 - page 870, middle column, line 16; figures 5-7 *	1-13, 28-34	TECHNICAL FIELDS SEARCHED (IPC) G06F
X ✓	SZTIPANOVITS J ET AL: "Self-Adaptive Software For Signal Processing" COMMUNICATIONS OF THE ASSOCIATION FOR COMPUTING MACHINERY, ACM, vol. 41, no. 5, 1 May 1998 (1998-05-01), pages 66-73, XP000767881 New York, NY, US ISSN: 0001-0782 * page 71, right-hand column, line 23 - page 73, left-hand column, line 21 * ----- -/--	14-19, 35-40	
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of the search 10 February 2006	Examiner Barieux, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)																
4 A ✓	EP 1 317 109 A (SONY INTERNATIONAL GMBH) 4 June 2003 (2003-06-04) * abstract * * paragraph '0052! - paragraph '0067!; figures 3-7 *	14-19, 35-40																	
5 X ✓	TAVANAPONG W ET AL: "Video Caching Network for On-Demand Video Streaming" GLOBECOM'02 - IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE. CONFERENCE PROCEEDINGS, vol. 1, 17 November 2002 (2002-11-17), pages 1723-1727, XP010636438 Taipei, Taiwan ISBN: 0-7803-7632-3 * abstract * * page 1723, left-hand column, line 1 - page 1725, left-hand column, last line ; figures 1-3 *	21-27, 43-49																	
6 A ✓	BOMMAIAH E ET AL: "Design and Implementation of a Caching System for Streaming Media over the Internet" PROCEEDINGS. REAL-TIME TECHNOLOGY AND APPLICATIONS SYMPOSIUM, 31 May 2000 (2000-05-31), pages 111-121, XP001035026 * abstract * * section 3.4 *Cache management" * ----- -/--	21-27, 43-49	TECHNICAL FIELDS SEARCHED (IPC)																
3 The present search report has been drawn up for all claims																			
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<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or</td></tr><tr><td>Y : particularly relevant if combined with another</td><td>after the filing date</td></tr><tr><td>document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>-----</td></tr><tr><td>P : intermediate document</td><td>& : member of the same patent family, corresponding</td></tr><tr><td></td><td>document</td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or	Y : particularly relevant if combined with another	after the filing date	document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	-----	P : intermediate document	& : member of the same patent family, corresponding		document
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	document																		

EPO FORM 1503 03/92 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
7 X ✓	CLINE L S ET AL: "DirectShow RTP Support for Adaptivity in Networked Multimedia Applications" MULTIMEDIA COMPUTING AND SYSTEMS, PROCEEDINGS, 28 June 1998 (1998-06-28), pages 13-22, XP010291573 Austin, TX, USA ISBN: 0-8186-8557-3 * abstract * * page 14, right-hand column, line 1 - page 17, right-hand column, line 22; figures 1-5 *	20,41,42	
8 X ✓	NAKAJIMA T: "A Toolkit for Building Continuous Media Applications" REAL-TIME COMPUTING SYSTEMS AND APPLICATIONS. PROCEEDINGS, 27 October 1997 (1997-10-27), pages 268-275, XP010251837 Taipei, Taiwan ISBN: 0-8186-8073-3 * abstract * * page 269, right-hand column, line 26 - page 272, left-hand column, line 12; figures 1-7 *	20,41,42	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
Berlin		10 February 2006	Barieux, M
CATEGORY OF CITED DOCUMENTS			
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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-13, 28-34

The invention is directed to processing multimedia data. In detail, pluggable component can be assembled in order to perform certain operation on a multimedia stream

2. claims: 14-19, 35-40

The invention relates to dynamically change how some pluggable component for processing multimedia data are assembled.

3. claims: 20, 41, 42

The invention is directed to locate and query pluggable components for processing multimedia data.

4. claims: 21-27, 43-49

The invention is directed to retrieve a part of a multimedia stream using pluggable components. In detail, a section of a multimedia stream is cached and retrieved if it corresponds to an external request.

EP 04 01 0014

10-02-2006

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1317109	A	04-06-2003	NONE